

Notice of Allowability

Application No.

10/754,325

Examiner

Fred Tzeng

Applicant(s)

OBERG ET AL.

Art Unit

2627

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 1/9/2004.
2. ☒ The allowed claim(s) is/are 1-82.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date 1/9/2004
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

Fred Tzeng
Primary Examiner
Art Unit 2627



DETAILED ACTION

1. Claims 1-82 are presented for examination.

Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on 1/9/2004 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Drawings

3. Drawings filed on 1/9/2004 are accepted by the Examiner.

Terminal Disclaimer

4. The terminal disclaimer filed on 5/18/2007 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of patent number 6,995,932 has been reviewed and is accepted. The terminal disclaimer has been recorded.

Reason for Allowance

5. The following is an examiner's statement of reasons for allowance:

Claims 1-14 and 73-77 are allowable over the prior art of record because none of the prior art of record teaches or fairly suggests the following limitation and the method

of using the limitation: a base correction circuit that generates a baseline correction signal using the first bit stream when the transient detector does not sense the transient events and the second bit stream when the transient detector senses the transient events, in the environments of claims 1 and 73, respectively.

Claims 15-27 and 78-80 are allowable over the prior art of record because none of the prior art of record teaches or fairly suggests the following limitation and the method of using the limitation: a baseline correction circuit that generates a baseline correction signal using the first bit stream when the thermal asperity events are not sensed and the second bit stream when the thermal asperity events are sensed, in the environments of claims 15 and 78, respectively.

Claims 28-36 and 81-82 are allowable over the prior art of record because none of the prior art of record teaches or fairly suggests the following limitation and the method of using the limitation: a detection circuit that detects data in the read data signal, that generates a first detected data signal when the transient detect signal is not generated, and that filters the read data signal and generates a second detected data signal when the transient detect signal is generated, in the environments of claims 28 and 81, respectively.

Claims 37-50 is allowable over the prior art of record because none of the prior art of record teaches or fairly suggests the following limitation: baseline correction means for generating a baseline correction signal using the first bit stream when the transient detecting means does not sense the transient events and the second bit

stream when the transient detecting means senses the transient events, in the environment of claim 37.

Claims 51-63 is allowable over the prior art of record because none of the prior art of record teaches or fairly suggests the following limitation: baseline correction means for generating a baseline correction signal using the first bit stream when the thermal asperity events are not sensed and the second bit stream when the thermal asperity events are sensed, in the environment of claim 51.

Claims 64-72 is allowable over the prior art of record because none of the prior art of record teaches or fairly suggests the following limitation: detecting means for detecting data in the read data signal, for generating a first detected data signal when the transient detect signal is not generated, and for filtering the read data signal and generating a second detected data signal when the transient detect signal is generated, in the environment of claim 64.

6. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

7. Any inquiry concerning this communication from the examiner should be directed to Fred Tzeng whose telephone number is 571-272-7565. The examiner can normally be reached on weekdays from 9:30 am to 6:00 pm.

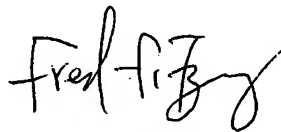
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoa Thi Nguyen can be reached on 571-272-7579. The fax phone numbers

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for the organization where this application or proceeding is assigned are 571-273-8300

for regular communications and 571-273-7565 for After Final communications.

8. Informal regarding the status of an application may be obtained from the Patent Application Information Retrieval (**PAIR**) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



FRED F. TZENG
PRIMARY EXAMINER

Fred F. Tzeng

June 01, 2007